



# Welcome

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## **EMBO Lecture Course**

### **“3D Structure Databases - Uses for Biological Problem solving”**

**Homerton College, Cambridge 20-24 September 2004**

**<http://www.ebi.ac.uk/msd/news-events/EMBO.html>**





# Course Organisers

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Dr Kim Henrick (European Bioinformatics Institute)

## **co-organisers**

Professor Janet Thornton (European Bioinformatics Institute)

Dr Gerard Kleywegt (Uppsala University)

Dr Jaime Prilusky (Weizmann Institute of Science)

Dr Helen M. Berman (Rutgers, the State University of New Jersey)



# Lecturers & Tutors:

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Professor Janet Thornton  
Dr Roman Laskowski  
Dr Kim Henrick  
Dr Phil McNeil  
Dr Sameer Velankar  
Mr Dimitris Dimitropoulos  
Dr Jaime Prilusky  
Dr Loredana Lo Conte  
Professor Bob Spence  
Dr. Wolfgang Bluhm  
Ms. Kyle Burkhardt

Dr Sue Jones  
Dr Hannes Ponstingl  
Dr Eugene Krissinel  
Dr Thomas Oldfield  
Mr Adel Golovin  
Dr Gerard Kleywegt  
Professor Helen Berman  
Professor Christine Orengo  
Dr James Milner-White  
Dr John Westbrook  
Dr Robert Finn

**Additional Tutors:** Dr John Tate, Dr John Ionides, Dr Abdelkrim Rachedi, Dr Jawahar Swaminathan, Mr Harry Bouselakis



# TimeTable

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**Monday 20th September – LECTURES** in the Shrubsole Room

Participants are split into 2 groups with **TUTORIALS** in the Creative Room *and* **LECTURES & DEMOS** in the Shrubsole Room *for*

**Tuesday 21st September**

**Wednesday 22nd September**

**Thursday 23rd September**

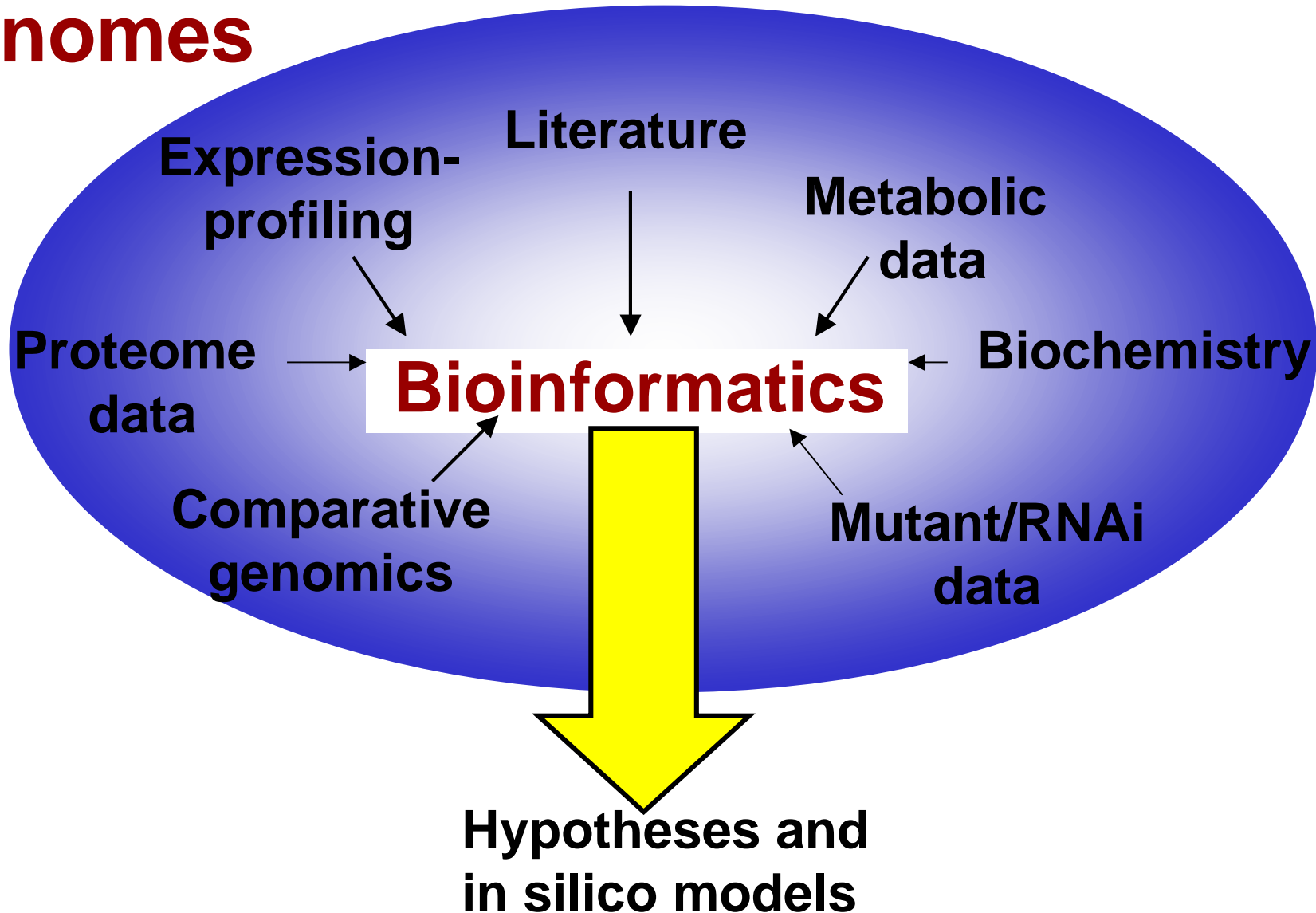
**Friday 24th September – LECTURES** in the Shrubsole Room



# Bioinformatics

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## Genomes





# Role of Bioinformatics

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- **To Support Experimental Biology**
  - **To Collect and Archive Data**
  - **To provide Framework and Integration**
  - **To give Easy Access to Data**
- **To make New Discoveries through Data Analysis**



<http://www.wwpdb.org/>

WORLDWIDE  
**wwPDB**  
PROTEIN DATA BANK



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RCSB PDB

MSD-EBI

PDBj

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## wwPDB Members

RCSB **PDB**  
PROTEIN DATA BANK



**PDBj**  
Protein Data Bank Japan

21-Nov-2003

RCSB, MSD-EBI, and PDBj collaborate to form Worldwide Protein Data Bank (wwPDB) to manage PDB archive

### WHAT IS THE MISSION OF THE wwPDB?

The mission of the wwPDB is to maintain a single Protein Data Bank Archive of macromolecular structural data that is freely and publicly available to the global community.

### WHAT IS THE PDB ARCHIVE?

The "PDB archive" is the collection of flat files in the legacy PDB file format and in the mmCIF format that follows the PDB exchange dictionary (<http://deposit.pdb.org/mmcif/>). Each wwPDB site is distributing the same PDB archive.

### HOW CAN I ACCESS THE PROTEIN DATA BANK ARCHIVE?

All three organizations serve as deposition, data processing and distribution sites of the PDB Archive. Each wwPDB site provides its own view of the primary data, thus providing a variety of tools and resources for the global community.

### WILL THERE BE ANY CHANGES IN THE WAY I DEPOSIT DATA?

Deposition procedures have not changed -- data may be deposited using ADIT at the RCSB and PDBj or by using AutoDep at ePDB.

**3D data**

Questions? [info@wwpdb.org](mailto:info@wwpdb.org)



# LINKS & Tutorial Page

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<http://www.ebi.ac.uk/msd-srv/docs/EMBO/>



# Computer Facilities

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**Computer Facilities available up to 9-00pm on the  
Tuesday, Wednesday and Thursday evenings**

**Tutors will be on hand for all evenings**



# Admin Details

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**See Welcome Pack for local details  
and details on Homerton College**

**Admin problems Janet Copeland is  
available for assistance**